## AMENDMENTS TO THE CLAIMS

## Please amend claim 11 as follows:

- 1 1. (Previously Presented) A method of determining inventory
- 2 levels of parts for a plurality of stocking locations, said
- 3 method comprising:
- 4 providing data for a plurality of customer locations, unit price
- of said parts, request rates for each of said parts for each of
- 6 said customer locations, handling costs for each of said stocking
- 7 locations, and travel time and transportation cost between said
- 8 stocking locations;
- 9 specifying a parts procurement time performance measure for
- 10 transfer of said parts from said plurality of stocking locations
- 11 to said plurality of customer locations, wherein said parts
- 12 procurement time performance measure comprises the percentage of
- parts in said request rates which can be transferred from any
- said stocking location to each respective said customer location
- within a pre-specified time, and wherein equipment requiring one
- or more of said parts is installed at one or more of said
- 17 plurality of customer locations;
- 18 entering said data and said performance measure into an
- optimization computer program;
- 20 computing said inventory levels of said parts for said plurality
- of stocking locations using said optimization computer program;
- 22 and

- 23 ordering sufficient numbers of said parts to maintain said
- 24 inventory levels at said plurality of stocking locations, wherein
- 25 said inventory levels are such that said performance measure is
- 26 met.
- 1 2. (Previously Presented) The method of claim 1, wherein said
- 2 data for said plurality of customer locations includes travel
- 3 time and cost to transfer a part from each of said plurality of
- 4 stocking locations to each of said customer locations.
- 1 3. (Previously Presented) The method of claim 1, wherein said
- 2 request rates include a probability distribution for one or more
- 3 of said request rates.
- 1 4. (Original) The method of claim 3, wherein said probability
- distribution is a Poisson distribution.
- 1 5. (Cancelled)
- 1 6. (Previously Presented) The method of claim 1, wherein said
- 2 parts are grouped by importance into a plurality of groups and
- 3 said pre-specified time comprises a corresponding plurality of
- 4 times.
- 1 7. (Original) The method of claim 6, wherein inventory levels are
- 2 computed to minimize overall cost while meeting or exceeding said
- 3 plurality of times.
- 1 8. (Original) The method of claim 1, wherein said optimization
- 2 computer program is a mixed integer optimization program.
- 9. (Previously Presented) The method of claim 1, wherein said

- 2 inventory levels are computed to meet a total inventory cost
- 3 while maximizing the percentage of said parts in said request
- 4 rates which can be transferred from any said stocking location to
- 5 each respective said customer location within a pre-specified
- 6 time.
- 1 10. (Previously Presented) The method of claim 1, further
- 2 comprising computing the estimated time for each part to be
- 3 transferred from any said stocking location to each respective
- 4 said customer location for each of said parts in said request
- 5 rates.
- 1 11. (Currently Amended) A computer implemented method of
- 2 specifying parts inventory levels for a network of stocking
- 3 locations, said method comprising:
- 4 providing data for a plurality of customer locations, unit price
- of said parts, request rates for each of said parts for each of
- 6 said customer locations, handling costs for each of said stocking
- 7 locations, and travel time and transportation cost between said
- 8 stocking locations;
- 9 specifying a parts procurement time performance measure for
- transfer of said parts from said network of stocking locations to
- 11 said plurality of customer locations, wherein said parts
- 12 procurement time performance measure comprises the percentage of
- parts in said request rates which can be transferred from any
- 14 stocking location of said network of stocking locations to each
- 15 respective said customer location within a pre-specified time,
- and wherein equipment requiring one or more of said parts is
- installed at one or more of said plurality of customer locations;

- 18 formulating a mixed integer optimization model of said network
- 19 <u>based upon said data and said performance measure</u>; and
- 20 entering said model on a processor to solve said mixed integer
- 21 model to obtain said inventory levels for each of said stocking
- locations in said network, wherein said inventory levels are such
- 23 that said performance measure is met.
- 1 12. (Original) The method of claim 11, wherein said model
- 2 includes a total inventory cost constraint.
- 1 13. (Original) The method of claim 11, wherein said inventory
- 2 levels are solved to minimize overall cost while meeting or
- 3 exceeding said parts procurement time performance measure.
- 1 14. (Withdrawn) A computer system for controlling inventory
- 2 levels of parts for a plurality of stocking locations,
- 3 comprising:
- 4 a processor;
- one or more files on said computer system containing data for a
- 6 plurality of customer locations, unit price of said parts,
- 7 request rates for each of said parts for each of said customer
- 8 locations, handling costs for each of said stocking locations,
- 9 and travel time and transportation cost between said stocking
- 10 locations:
- 11 means for computing on said processor a parts procurement time
- 12 performance measure;
- an optimization computer program on said processor for

- 14 calculating said inventory levels of parts for said plurality of
- 15 stocking locations; and
- an ordering system on said computer system for maintaining said
- inventory levels at said plurality of stocking locations.
  - 1 15. (Withdrawn) The system of claim 14, wherein said data for a
- 2 plurality of customer locations includes travel time and cost to
- 3 transfer a part from each of said plurality of stocking locations
- 4 to each of said customer locations.
- 1 16. (Withdrawn) The system of claim 14, wherein said request
- 2 rates includes a probability distribution for one or more of said
- 3 request rates.
- 1 17. (Withdrawn) The system of claim 14, further comprising a
- 2 mixed integer model of said network.
- 1 18. (Withdrawn) The system of claim 17, wherein said model is
- 2 formulated to minimize overall cost while meeting or exceeding a
- 3 pre-specified parts procurement time performance measure.
- 1 19. (Previously Presented) A computer program product for
- 2 instructing a processor to determine inventory levels of parts
- for a plurality of stocking locations, said computer program
- 4 product comprising;
- 5 a computer readable medium;
- 6 first program instruction means for providing data for a
- 7 plurality of customer locations, unit price of said parts,
- 8 request rates for each of said parts for each of said customer

- 9 locations, handling costs for each of said stocking locations,
- 10 and travel time and transportation cost between said stocking
- 11 locations;
- 12 second program instruction means for specifying a parts
- procurement time performance measure for transfer of said parts
- 14 from said plurality of stocking locations to said plurality of
- 15 customer locations, wherein said parts procurement time
- 16 performance measure comprises the percentage of parts in said
- 17 request rates which can be transferred from any said stocking
- 18 location to each respective said customer location within a
- 19 pre-specified time, and wherein equipment requiring one or more
- of said parts is installed at one or more of said plurality of
- 21 customer locations;
- 22 third program instruction means for entering said data and said
- 23 performance measure into an optimization computer program;
- 24 fourth program instruction means for computing said inventory
- 25 levels of said parts for said plurality of stocking locations
- using said optimization computer program; and
- fifth program instruction means for ordering sufficient numbers
- 28 of said parts to maintain said inventory levels at said plurality
- of stocking locations, wherein said inventory levels are such
- that said performance measure is met; and wherein
- 31 all said program instruction means are recorded on said medium.
- 1 20. (Previously Presented) A method of determining inventory
- 2 levels of parts for a plurality of stocking locations, said
- 3 method comprising:

- 4 providing data for a plurality of customer locations, unit price
- of said parts, request rates for each of said parts for each of
- 6 said customer locations, handling costs for each of said stocking
- 7 locations, and travel time and transportation cost between said
- 8 stocking locations;
- 9 specifying a parts procurement time performance measure, wherein
- said parts procurement time performance measure comprises the
- 11 percentage of parts in said request rates which can be
- 12 transferred from any said stocking location to each said
- 13 respective customer location within a pre-specified time;
- 14 entering said data and said performance measure into an
- 15 optimization computer program;
- 16 computing said inventory levels of said parts for said plurality
- of stocking locations using said optimization computer program;
- 18 and
- ordering sufficient numbers of said parts to maintain said
- 20 inventory levels at said plurality of stocking locations.
- 1 21. (Previously Presented) The method of claim 20, wherein said
- 2 parts are grouped by importance into a plurality of groups and
- 3 said pre-specified time comprises a corresponding plurality of
- 4 times.
- 1 22. (Previously Presented) The method of claim 21, wherein
- 2 inventory levels are computed to minimize overall cost while
- 3 meeting or exceeding said plurality of times.
- 1 23. (Previously Presented) A method of determining inventory

- levels of parts for a plurality of stocking locations, said
- 3 method comprising:
- 4 providing data for a plurality of customer locations, unit price
- of said parts, request rates for each of said parts for each of
- 6 said customer locations, handling costs for each of said stocking
- 7 locations, and travel time and transportation cost between said
- 8 stocking locations;
- 9 specifying a parts procurement time performance measure;
- 10 entering said data and said performance measure into an
- 11 optimization computer program;
- 12 computing said inventory levels of said parts for said plurality
- of stocking locations using said optimization computer program,
- wherein said inventory levels are computed to meet a total
- inventory cost while maximizing the percentage of said parts in
- said request rates which can be transferred from any said
- 17 stocking location to each respective said customer location
- 18 within a pre-specified time; and
- ordering sufficient numbers of said parts to maintain said
- 20 inventory levels at said plurality of stocking locations.